IP and IK

IP Ratings

The IP (Ingress Protection) rating system provides a means of classifying the degrees of protection from foreign bodies and liquids afforded by electrical equipment and enclosures. The degrees of protection against the ingress of foreign bodies and liquids are indicated by the first two numerals as detailed in the table below.

1ST NUMBER	
0	No Protection
1	Protected against ingress of objects => 52mm in diameter.
2	Protected against ingress of objects => 12.5mm in diameter.
3	Protected against ingress of objects => 2.5mm in diameter.
4	Protected against ingress of objects => 1mm in diameter.
5	Dust Protected
6	Dust Tight

2ND NUMBER	
0	No Protection
1	Protected against vertically falling drops of water.
2	Protected against falling drops of water, when enclosure tilted 15 degrees.
3	Protected against spraying water.
4	Protected against splashing water.
5	Protected against water jets.
6	Protected against powerful water jets.
7	Protected against the effects of temporary immersion in water.
8	Protected against the effects of continous immersion in water.

IK Ratings

The IK rating system was introduced in October 1995 as EN62262. It describes the degree to which an electrical enclosure can protect the internal equipment from the effects of mechanical impact.

IK00	**Not protected**
IK01	**Protected against 0.14 joules impact.** Equivalent to impact of 0.25 kg mass dropped from 56 mm above impacted surface.
IK02	**Protected against 0.2 joules impact.** Equivalent to impact of 0.25 kg mass dropped from 80 mm above impacted surface.
IK03	**Protected against 0.35 joules impact.** Equivalent to impact of 0.25 kg mass dropped from 140 mm above impacted surface.
IK04	**Protected against 0.5 joules impact.** Equivalent to impact of 0.25 kg mass dropped from 200 mm above impacted surface.
IK05	**Protected against 0.7 joules impact.** Equivalent to impact of 0.25 kg mass dropped from 280 mm above impacted surface.
IK06	**Protected against 1 joules impact.** Equivalent to impact of 0.25 kg mass dropped from 400 mm above impacted surface.
IK07	**Protected against 2 joules impact.** Equivalent to impact of 0.5 kg mass dropped from 400 mm above impacted surface.
IK08	**Protected against 5 joules impact.** Equivalent to impact of 1.7 kg mass dropped from 300 mm above impacted surface.
IK09	**Protected against 10 joules impact.** Equivalent to impact of 5 kg mass dropped from 200 mm above impacted surface.
IK10	**Protected against 20 joules impact.** Equivalent to impact of 5 kg mass dropped from 400 mm above impacted surface.

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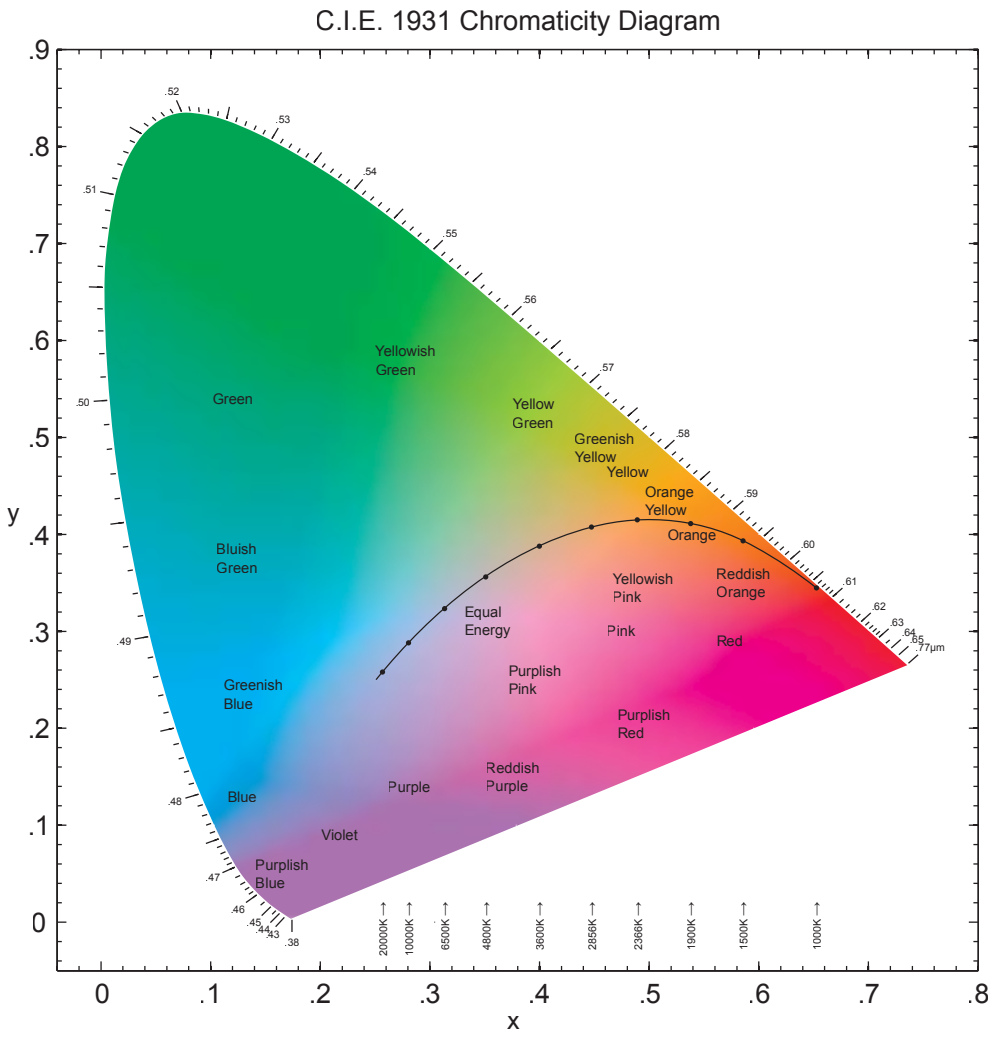
CCT

Correlated Colour Temperature

Color Temperature is the chomacity of a light source as determined by it's position on an imaginary line drawn through a colour space. This line is often referred to as a 'blackbody locus' , as it is the locus (line) resulting from graphing the chromacity of a perfect blackbody radiator as it changes temperature. In general, "hotter" CCT's appear "cooler/bluer" whilst "colder" CCT's appear "warmer/more red".

CCT	Example
2000°	Gaslight
2470°	15 watt incandescent bulb
2565°	60 watt incandescent bulb
2665°	100 watt incandescent bulb
2755°	500 watt incandescent bulb
2900°	500 watt Krypton bulb
3100°	Projector type filament bulb
3250°	Photo Flood
3400°	Halogen
3900°	Carbon arc
4200°	Moonlight
4700°	Industrial smog
5100°	Hazy weather
5500°	Sun 30° above horizon
6100°	Sun 50° above horizon
6700°	Electronic Flash
7400°	Overcast sky
8300°	Foggy weather
30,000°	Blue sky



The International Commission on Illumination - commonly abbreviated as CIE.

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